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OPTICAL HEAD FOR MAGNETO-OPTICAL RECORDING AND REPRODUCING DEVICE

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Abstract

PURPOSE: To separate an overwrite spot and a verify spot in a desired light quantity ratio by inclining the optical axis of a second rectangular prism at 45 deg. to the direction of polarization of the luminous flux emitted from the third end face of a first rectangular prism and making the optical axis of a third prism orthogonal to the second rectangular prism.

CONSTITUTION: Light is separated to the overwrite beam and the verify beam in directions of polarization orthogonal to each other in a prescribed light quantity ratio by a uniaxial crystal prism 16-1, and they are made incident on a magneto-optical disk. They are condensed as an overwrite spot and a verify spot on the disk, and respective reflected beams are allowed to pass a uniaxial crystal rectangular prism 16-2, which is joined to the prism 16-1 and has the optical axis inclined at 45 deg. to the direction of polarization of the incident beam to the magneto-optical disk in a plane perpendicular to the reflected beam, and a uniaxial crystal rectangular prism 16-3, which is joined to the prism 16-2 and has the optical axis orthogonal to the prism 16-2, and are separated to four beams whose directions of polarization are orthogonal to one another. Thus, photomagnetic signals of the overwrite beam and the verify beam are obtained.



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TOP

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